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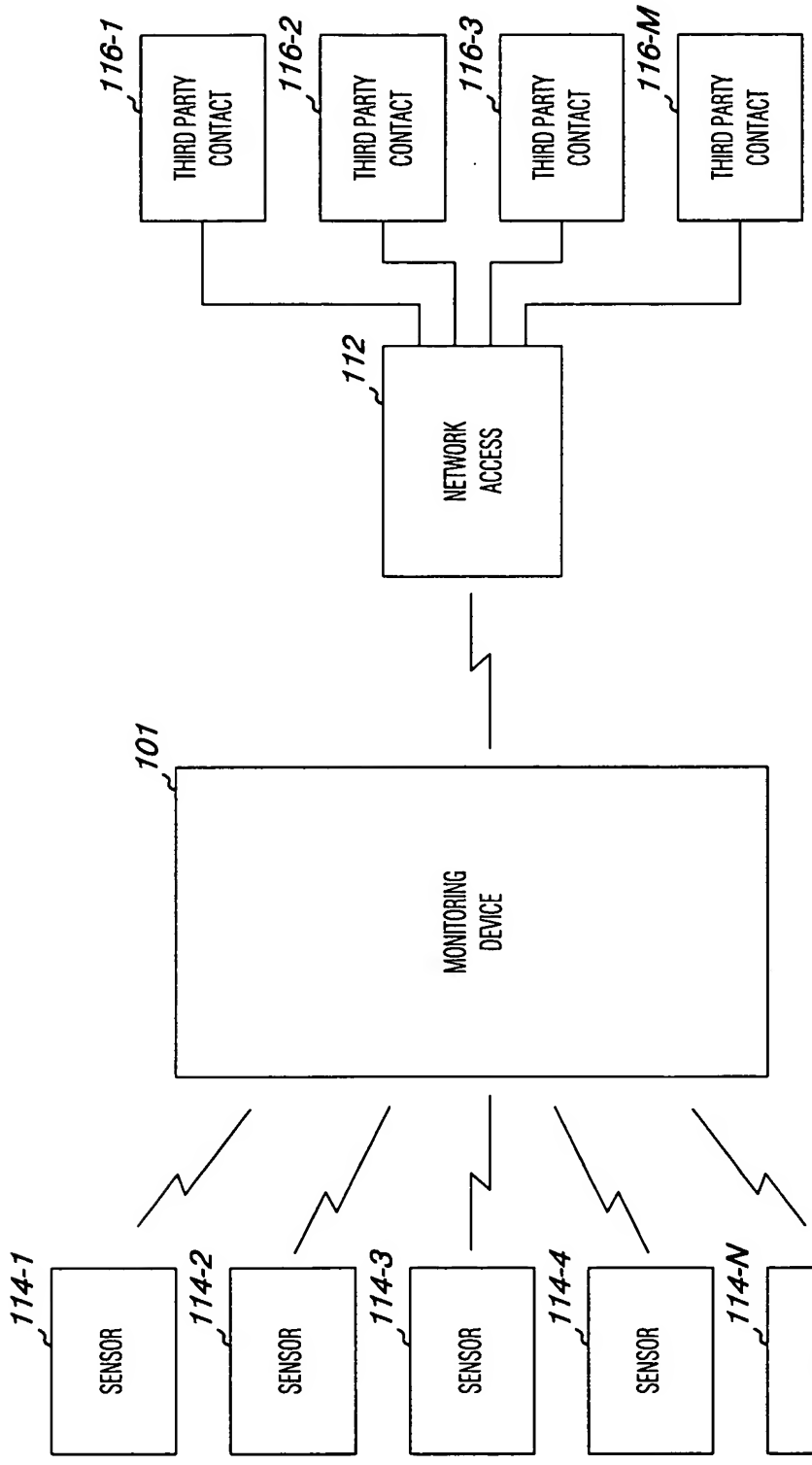
116-1
THIRD PARTY CONTACT
116-2
THIRD PARTY CONTACT
116-3
THIRD PARTY CONTACT
116-M
THIRD PARTY CONTACT
112
NETWORK ACCESS
101
MONITORING DEVICE
114-1
SENSOR
114-2
SENSOR
114-3
SENSOR
114-4
SENSOR
114-N
SENSOR

Fig. 1

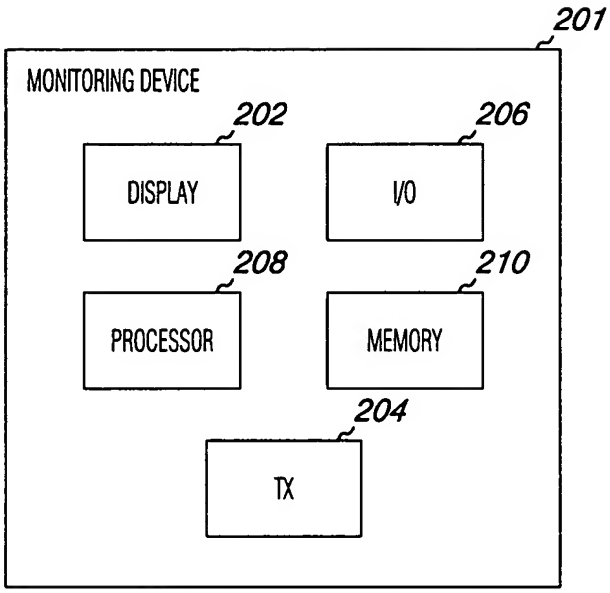
201
MONITORING DEVICE
202
DISPLAY
206
I/O
208
PROCESSOR
210
MEMORY
204
TX

Fig. 2A

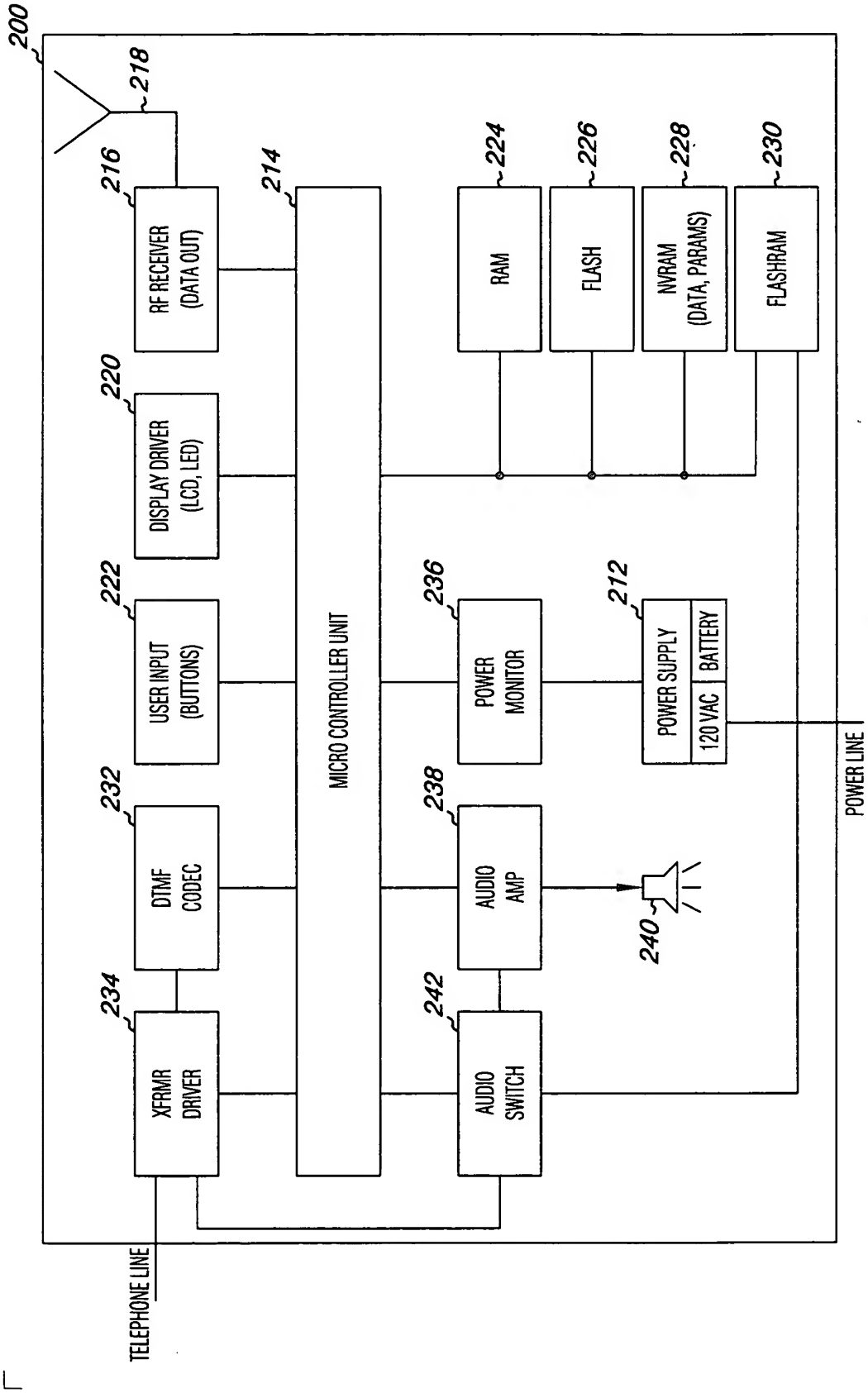
200
218
216
RF RECEIVER (DATA OUT)
214
224
RAM
226
FLASH
228
NVRAM (DATA, PARAMS)
230
FLASHRAM
220
DISPLAY DRIVER (LCD, LED)
222
USER INPUT (BUTTONS)
236
POWER MONITOR
212
POWER SUPPLY
120 VAC
BATTERY
MICRO CONTROLLER UNIT
232
DTMF CODEC
238
AUDIO AMP
240
234
XFRMR DRIVER
242
AUDIO SWITCH
TELEPHONE LINE
POWER LINE

Fig. 2B

MORNING ACTIVITY	COUNTS	THRESHOLD FOR ACTIVITY
BEDROOM	5	4
BATHROOM	10	5
KITCHEN	15	5
DINING ROOM	2	0
LIVING ROOM	2	0
LAUNDRY ROOM	0	0
TOTAL COUNTS	34	TOTAL THRESHOLD 14

Fig. 3A

AFTERNOON ACTIVITY	COUNTS	THRESHOLD FOR ACTIVITY
BEDROOM	0	0
BATHROOM	2	0
KITCHEN	10	5
DINING ROOM	2	0
LIVING ROOM	4	0
LAUNDRY ROOM	2	0
TOTAL COUNTS	20	TOTAL THRESHOLD 5

Fig. 3B

EVENING ACTIVITY	COUNTS	THRESHOLD FOR ACTIVITY
BEDROOM	5	0
BATHROOM	10	5
KITCHEN	15	5
DINING ROOM	2	0
LIVING ROOM	2	0
LAUNDRY ROOM	0	0
TOTAL COUNTS	34	TOTAL THRESHOLD 10

Fig. 3C

NIGHT TIME ACTIVITY	COUNTS	THRESHOLD FOR ACTIVITY
BEDROOM	3	1
BATHROOM	4	0
KITCHEN	2	0
DINING ROOM	0	0
LIVING ROOM	0	0
LAUNDRY ROOM	0	0
TOTAL COUNTS	9	TOTAL THRESHOLD 1

Fig. 3D

SENSORS GROUPED BY ACTIVITIES OF DAILY LIVING	COUNTS		THRESHOLDS
WAKING (BEDROOM, BATHROOM)	15		7
BREAKFAST (KITCHEN, DINING ROOM)	17		8
MORNING ACTIVITY (ALL SENSORS)	6		1
LUNCH (KITCHEN, DINING ROOM)	12		6
AFTERNOON ACTIVITY (ALL SENSORS)	16		2
DINNER (KITCHEN, DINING ROOM)	19		8
PREPARE FOR BED (BEDROOM, BATHROOM)	7		2
TOTAL COUNTS	92	TOTAL THRESHOLD	34

Fig. 4

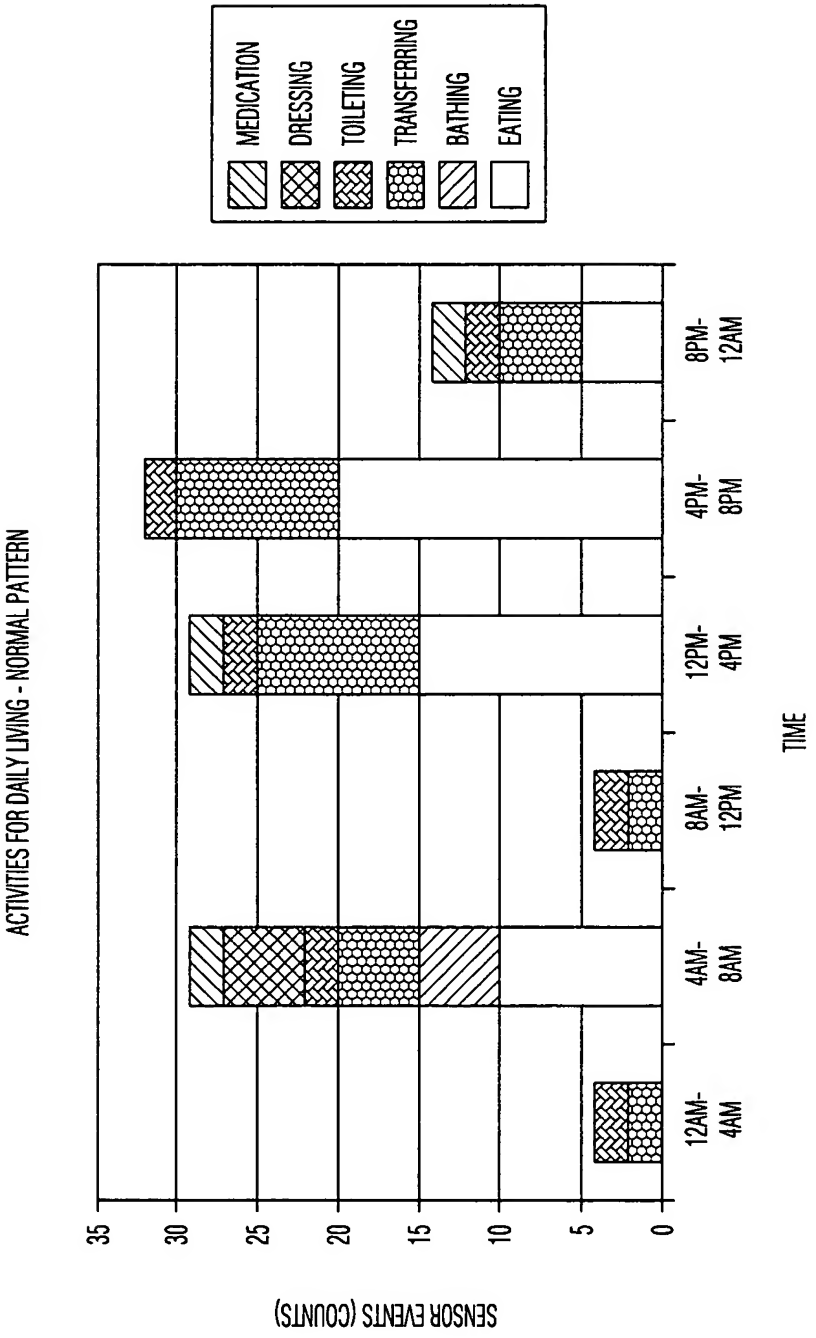
ACTIVITIES FOR DAILY LIVING - NORMAL PATTERN
MEDICATION
DRESSING
TOILETING
TRANSFERRING
BATHING
EATING
SENSOR EVENTS (COUNTS)
0
5
10
15
20
25
30
35
12AM-4AM
4AM-8AM
8AM-12PM
12PM-4PM
4PM-8PM
8PM-12AM
TIME

Fig. 5A

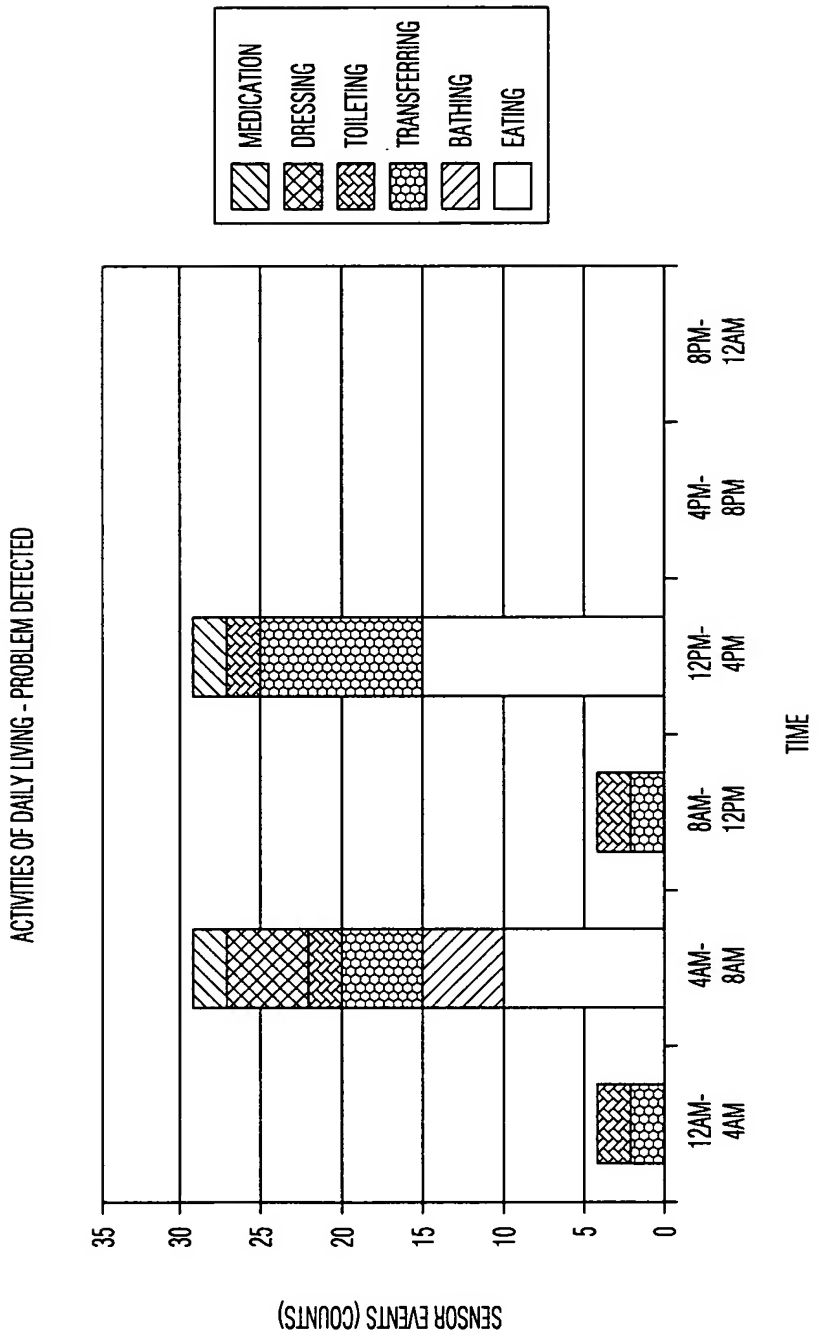
MEDICATION
DRESSING
TOILETING
TRANSFERRING
BATHING
EATING
ACTIVITIES OF DAILY LIVING - PROBLEM DETECTED
SENSOR EVENTS (COUNTS)
0
5
10
15
20
25
30
35
12AM-4AM
4AM-8AM
8AM-12PM
12PM-4PM
4PM-8PM
8PM-12AM
TIME

Fig. 5B

THIRD PARTY CALL HIERARCHY AND INFORMATION TO BE PROVIDED

CALL #	CONTACT	INFORMATION
1	INDIVIDUAL	ARE YOU O.K.?
2	NEIGHBOR	NAME, REQUEST TO CHECK, PHONE #
3	RELATIVE	NAME, REQUEST TO CHECK, ADDRESS, PHONE #
4	DOCTOR	NAME, TIME AND OBSERVED CHANGE, ADDRESS, PHONE #
5	EMERGENCY	NAME, TIME AND OBSERVED CHANGE, MEDICAL HISTORY INFORMATION, LIST OF CONTACTS ATTEMPTED, ADDRESS, PHONE #

Fig. 6

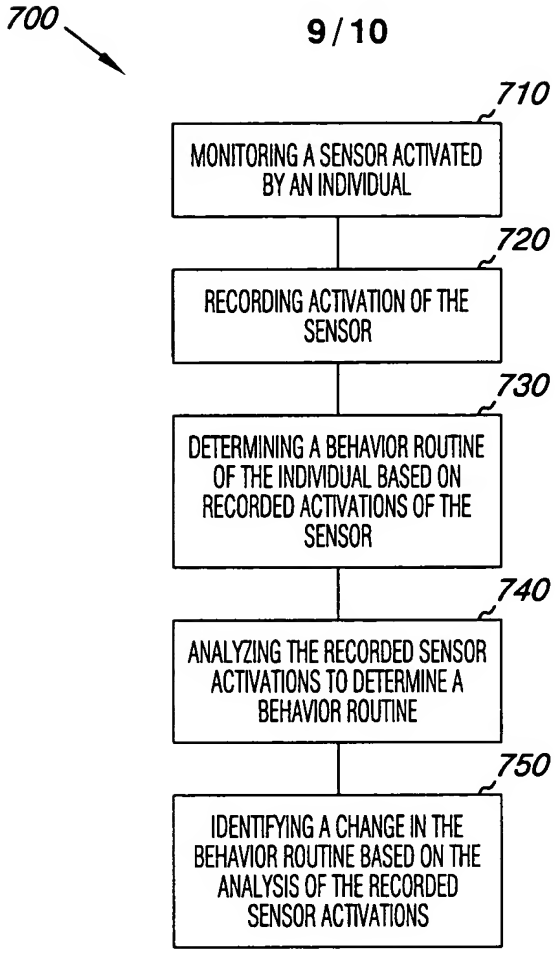
700
710
MONITORING A SENSOR ACTIVATED BY AN INDIVIDUAL
720
RECORDING ACTIVATION OF THE SENSOR
730
DETERMINING A BEHAVIOR ROUTINE OF THE INDIVIDUAL BASED ON RECORDED ACTIVATIONS OF THE SENSOR
740
ANALYZING THE RECORDED SENSOR ACTIVATIONS TO DETERMINE A BEHAVIOR ROUTINE
750
IDENTIFYING A CHANGE IN THE BEHAVIOR ROUTINE BASED ON THE ANALYSIS OF THE RECORDED SENSOR ACTIVATIONS

Fig. 7

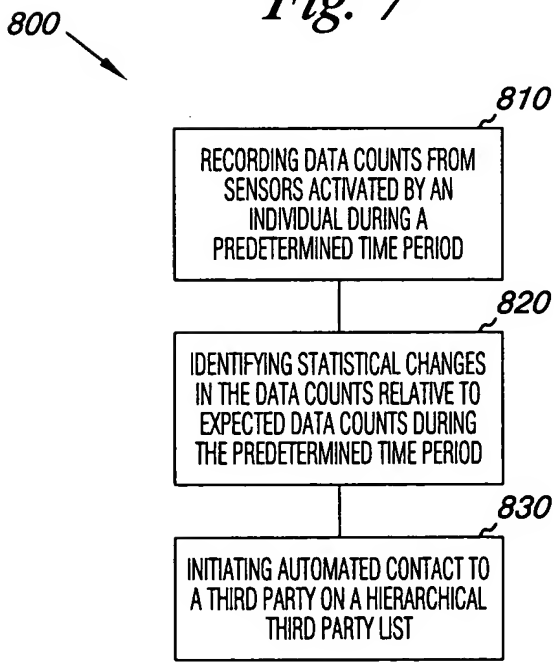
800
810
RECORDING DATA COUNTS FROM SENSORS ACTIVATED BY AN INDIVIDUAL DURING A PREDETERMINED TIME PERIOD
820
IDENTIFYING STATISTICAL CHANGES IN THE DATA COUNTS RELATIVE TO EXPECTED DATA COUNTS DURING THE PREDETERMINED TIME PERIOD
830
INITIATING AUTOMATED CONTACT TO A THIRD PARTY ON A HIERARCHICAL THIRD PARTY LIST

Fig. 8

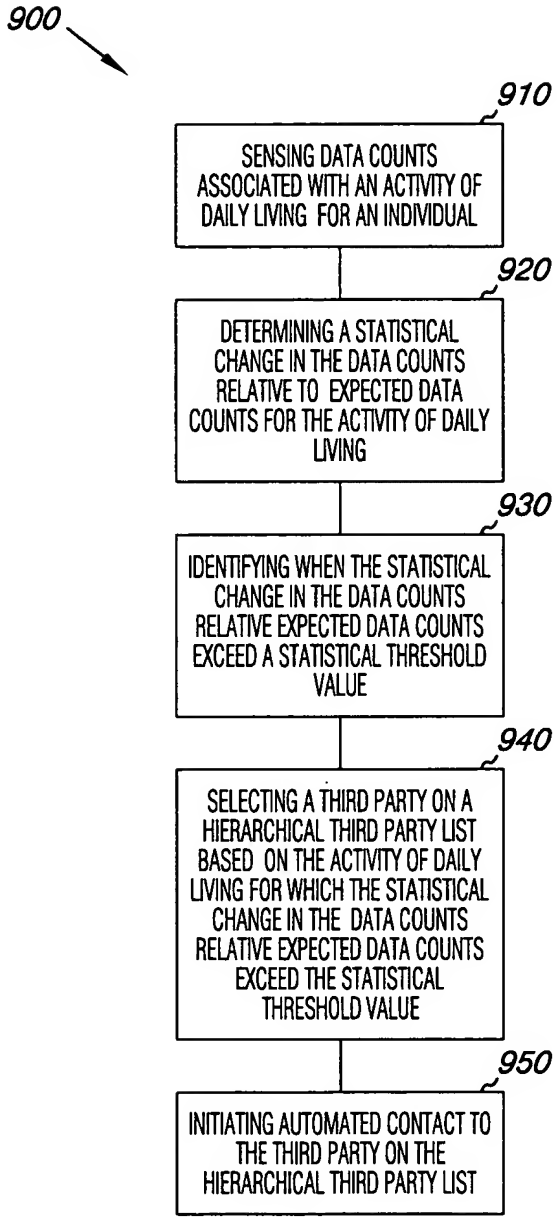
900
910
SENSING DATA COUNTS ASSOCIATED WITH AN ACTIVITY OF DAILY LIVING FOR AN INDIVIDUAL
920
DETERMINING A STATISTICAL CHANGE IN THE DATA COUNTS RELATIVE TO EXPECTED DATA COUNTS FOR THE ACTIVITY OF DAILY LIVING
930
IDENTIFYING WHEN THE STATISTICAL CHANGE IN THE DATA COUNTS RELATIVE EXPECTED DATA COUNTS EXCEED A STATISTICAL THRESHOLD VALUE
940
SELECTING A THIRD PARTY ON A HIERARCHICAL THIRD PARTY LIST BASED ON THE ACTIVITY OF DAILY LIVING FOR WHICH THE STATISTICAL CHANGE IN THE DATA COUNTS RELATIVE EXPECTED DATA COUNTS EXCEED THE STATISTICAL THRESHOLD VALUE
950
INITIATING AUTOMATED CONTACT TO THE THIRD PARTY ON THE HIERARCHICAL THIRD PARTY LIST

Fig. 9